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APPLICANT : NIPPON STEEL CORP;

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TITLE : PRODUCTION OF THIN FERRITIC STAINLESS STEEL HAVING EXCELLENT BLANKING PROPERTY

ABSTRACT : PURPOSE: To remarkably improve the blanking property of an annealed thin ferritic stainless steel sheet without pickling the sheet by forming a coated film consisting of an org. material or a mixture composed of the org. and inorg. materials on the surface of said steel sheet.

CONSTITUTION: The coated film consisting of the org. material or the mixture composed of the org. and inorg. materials is formed on the surface of the annealed thin ferritic stainless steel sheet to 0.05~5g/m^2 deposition. The above- mentioned annealing is executed in the temp. region of 800~1,000°C in an atmosphere having -30~0°C dew point and consisting of 1~80% H_2 and the balance N_2. The oxide layer on the surface is formed to 300~5,000 thickness. The material consisting of the org. material or the mixture composed of the org. and inorg. materials to be coated on the surface of the stainless steel sheet refers to a PVA or acryl emulsion added with CrO_3, H_2BO_3, etc. As a result, the blanking property is remarkably improved and this method is effective in improving productivity and extending the life of dies. The rust resistance is improved as well.